

1. A method of using a smart card, comprising:
 - issuing a smart card to a user;
 - issuing manual authentication information to the user;
 - authenticating the user and the smart card using the manual authentication information;
 - obtaining a public key from the smart card; and
 - issuing a digital certificate using the public key to the smart card to activate the smart card.
2. The method according to claim 1, wherein the manual authentication information comprises a user ID and a password.
3. The method according to claim 1, further comprising obtaining the digital certificate from a certificate authority.
4. The method according to claim 1, wherein the authenticating further comprises connecting the smart card to a workstation.
5. The method according to claim 1, further comprising storing the digital certificate in at least one of the smart card and a workstation.
6. The method according to claim 1, further comprising:
 - connecting the smart card to a workstation;
 - initiating a login request to a server;
 - authenticating the smart card using the digital certificate; and
 - if authenticated, permitting a login to a computer resource.
7. The method according to claim 6, wherein the authenticating further comprises connecting the smart card to a workstation, and removing the smart card from the workstation after the authenticating.

- 1 8. The method according to claim 6, wherein the authenticating further
2 comprises determining that the digital certificate has not been revoked.

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1 9. A method of using a smart card, comprising:
2 receiving a smart card;
3 receiving manual authentication information;
4 authenticating the smart card using the manual authentication information;
5 generating a public key using the smart card;
6 sending the public key to an administration server; and
7 receiving a digital certificate generated using the public key to activate the
8 smart card.

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10 10. The method according to claim 9, wherein the manual authentication
11 information comprises a user ID and a password.

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13 11. The method according to claim 9, further comprising receiving the digital
14 certificate from a certificate authority.

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16 12. The method according to claim 9, wherein the authenticating further
17 comprises connecting the smart card to a workstation.

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19 13. The method according to claim 9, further comprising storing the digital
20 certificate in at least one of the smart card and a workstation.

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22 14. The method according to claim 9, further comprising:
23 connecting the smart card to a workstation;
24 sending a login request to a server;
25 authenticating the digital certificate against a certificate revocation list; and
26 if authenticated, permitting a login to a computer resource.

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28 15. The method according to claim 14, wherein the authenticating further
29 comprises connecting the smart card to a workstation, and removing the smart
30 card from the workstation after sending the digital certificate.

1 16. The method according to claim 9, wherein the authenticating further
2 comprises determining that the digital certificate has not been revoked.

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- 1 17. A method of using a smart card, comprising:
2 connecting the smart card to a workstation;
3 sending a login request to a server;
4 authenticating a digital certificate for the smart card; and
5 if authenticated, permitting a login to a computer resource.
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- 7 18. The method according to claim 17, wherein the digital certificate is obtained
8 by obtaining a public key from the smart card, and receiving the digital certificate
9 from a certificate authority.
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- 11 19. The method according to claim 17, further comprising obtaining the digital
12 certificate from a certificate authority.
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- 14 20. The method according to claim 17, wherein the authenticating further
15 comprises connecting the smart card to a workstation, and the removing the smart
16 card from the workstation after authenticating.
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- 18 21. The method according to claim 17, further comprising storing the digital
19 certificate in at least one of the smart card and a workstation.
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- 21 22. The method according to claim 17, wherein the authenticating further
22 comprises determining that the digital certificate has not been revoked.

- 1 23. A method of using a smart card, comprising:
2 issuing a smart card to a user;
3 issuing manual authentication information to the user, the manual
4 authentication information comprising a user ID and a password;
5 on first use of the smart card:
6 connecting the smart card to a workstation;
7 authenticating the user and the smart card using the manual
8 authentication information;
9 obtaining a public key from the smart card; and
10 sending a digital certificate generated using the public key from a
11 certificate authority to the smart card to activate the smart card.
12 on a subsequent use of the smart card:
13 connecting the smart card to a workstation;
14 sending a login request to a server;
15 authenticating the digital certificate against a certificate revocation list
16 to determine that the digital certificate has not been revoked; and
17 if authenticated, permitting a login to a computer resource.
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19 24. The method according to claim 23, wherein the authenticating further
20 comprises connecting the smart card to a workstation, and the removing the smart
21 card from the workstation after authenticating.
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23 25. The method according to claim 23, further comprising storing the digital
24 certificate in at least one of the smart card and a workstation.
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